

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P400690

Luminaire Tested: **TT-D6-840-U-RW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-79-08
Report Number: P400690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P197998)
Test Lab: INNOVATION CENTER
Issue Date: 6/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D6-840-U-RW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
4000K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10415 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G3

Input Watts (W): 105.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

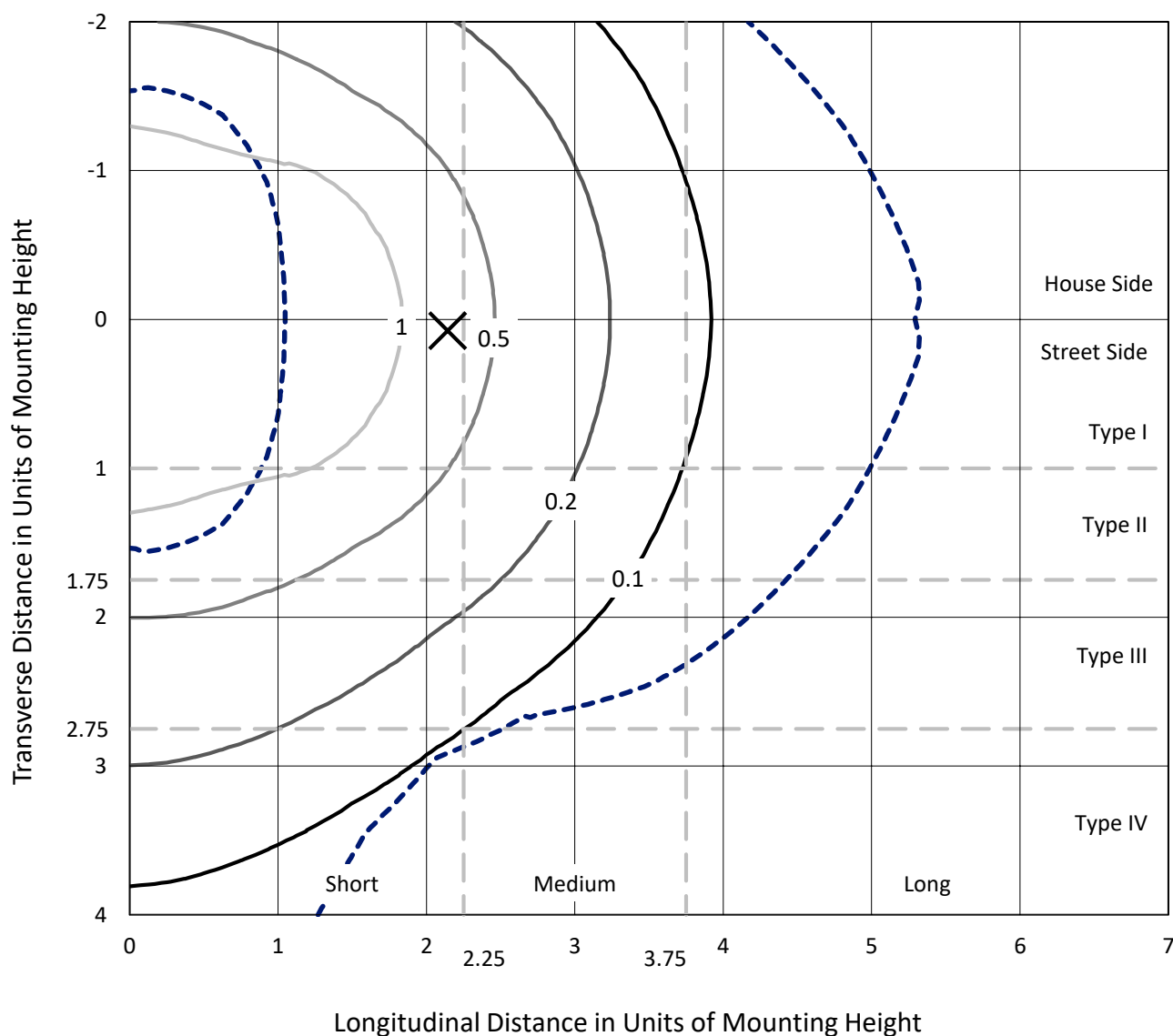


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

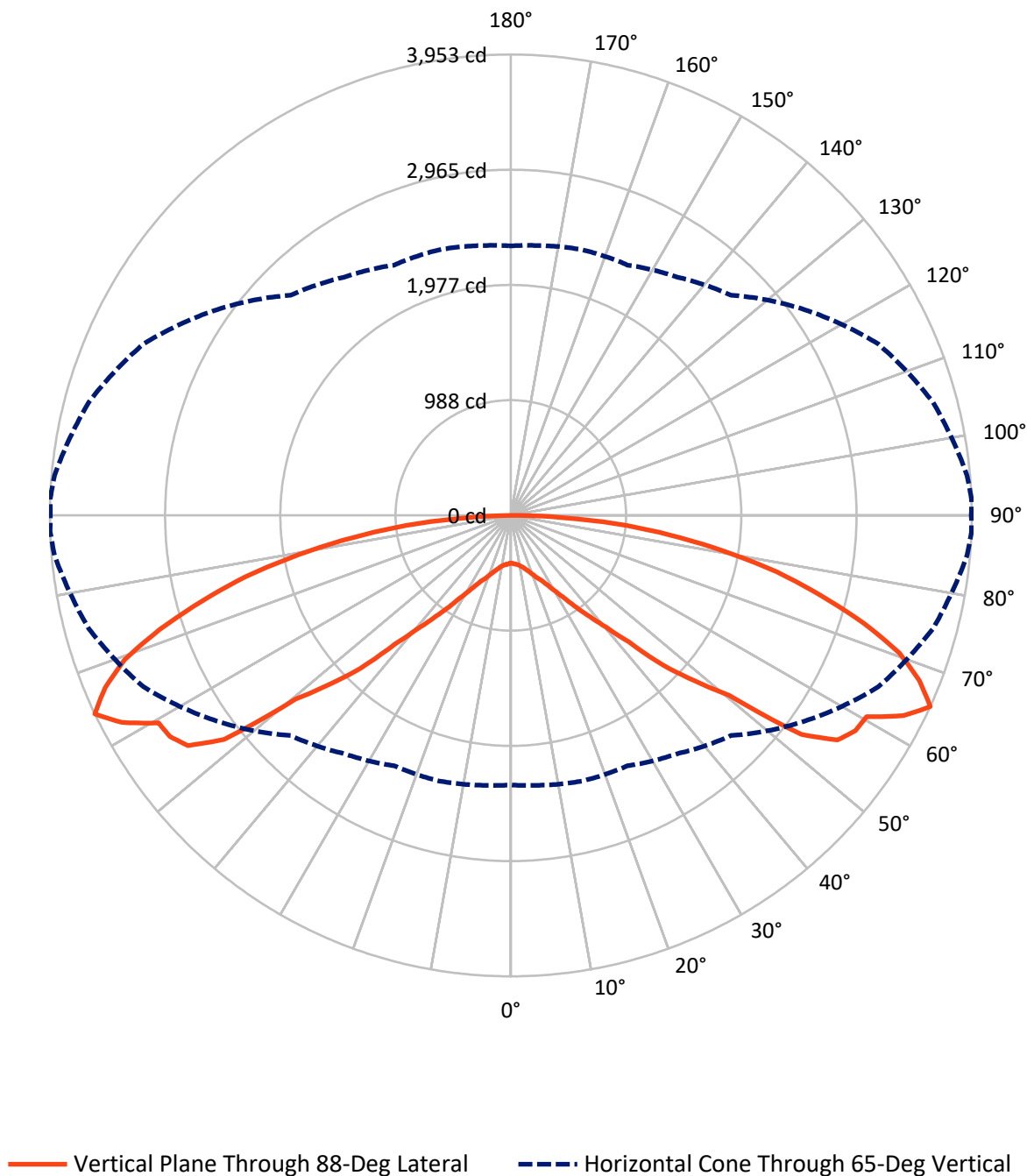


Based on 20 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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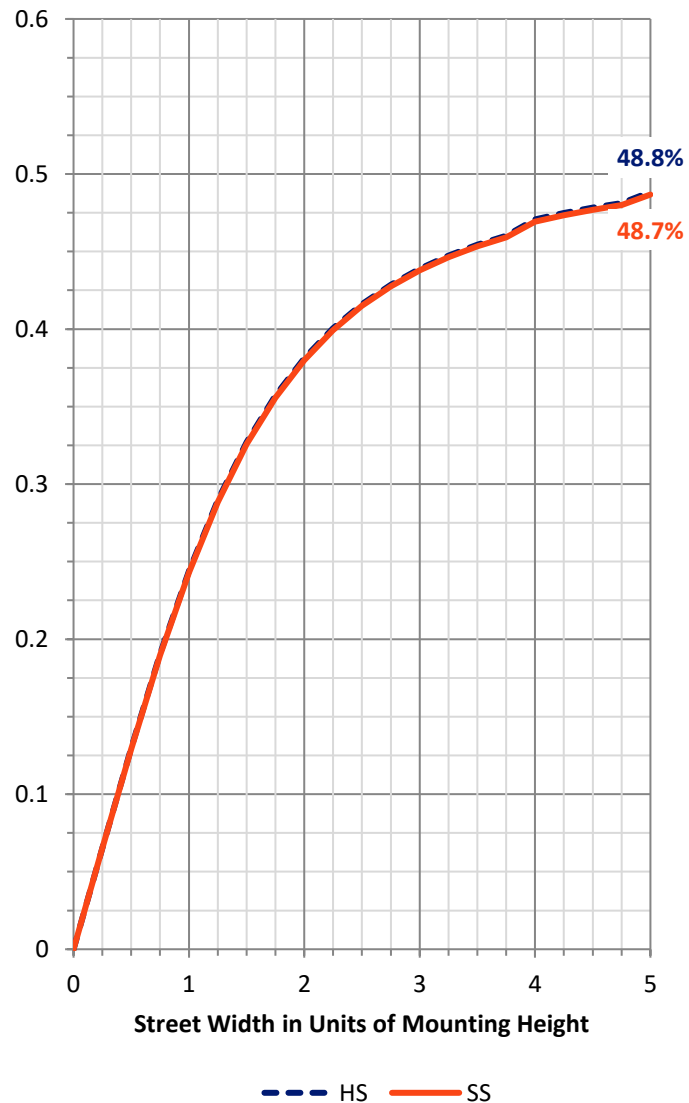
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5207.5	0.0	5207.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5207.5	0.0	5207.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10415.0	0.0	10415.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	0.4
10°-20°	141.8	1.4
20°-30°	313.2	3.0
30°-40°	624.2	6.0
40°-50°	1194.8	11.5
50°-60°	2138.5	20.5
60°-70°	2833.8	27.2
70°-80°	2364.8	22.7
80°-90°	763.0	7.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10415.0	100.0
0°-180°	10415.0	100.0

Coefficient of Utilization



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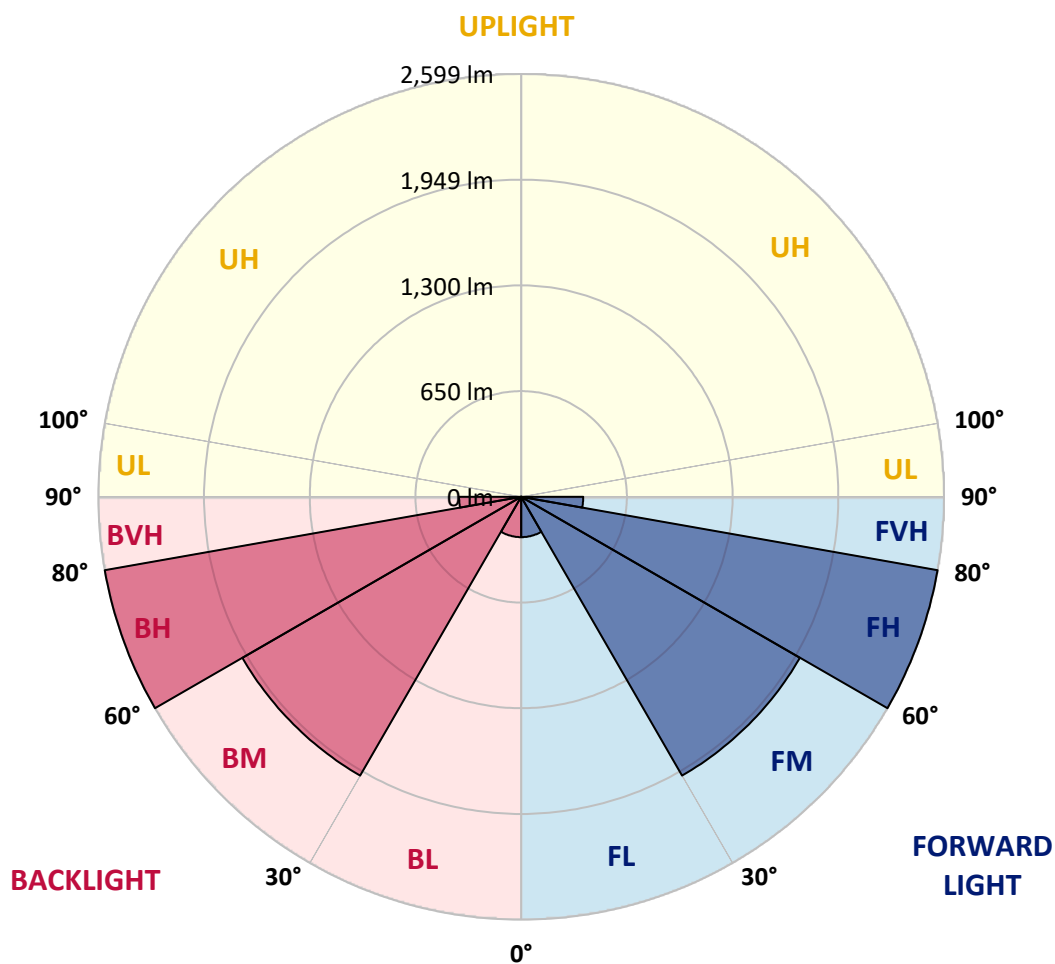
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	247.9	2.4			
FM	(30°-60°)	1978.7	19.0			
FH	(60°-80°)	2599.3	25.0			G2/5000
FVH	(80°-90°)	381.5	3.7			G3/500
BL	(0°-30°)	247.9	2.4	B1/500		
BM	(30°-60°)	1978.7	19.0	B2/2500		
BH	(60°-80°)	2599.3	25.0	B4/5000		G2/5000
BVH	(80°-90°)	381.5	3.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	88°
0°	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8
2.5°	411.9	411.9	411.9	411.9	414.0	414.0	414.0	414.0	414.0	414.0	414.0
5°	418.1	418.1	420.1	420.1	422.2	422.2	422.2	422.2	420.1	420.1	420.1
7.5°	428.3	430.4	432.4	432.4	432.4	430.4	428.3	428.3	426.3	426.3	426.3
10°	446.8	446.8	448.8	448.8	446.8	444.7	442.7	440.6	440.6	440.6	438.6
12.5°	469.3	469.3	471.3	469.3	465.2	463.1	459.0	457.0	457.0	454.9	454.9
15°	500.0	504.1	504.1	498.0	491.8	485.7	483.6	479.5	479.5	479.5	479.5
17.5°	547.2	545.1	536.9	530.8	526.7	516.4	512.3	510.3	506.2	506.2	506.2
20°	600.4	596.4	586.1	577.9	569.7	557.4	549.2	545.1	543.1	541.0	541.0
22.5°	659.9	653.7	639.4	633.2	616.8	604.5	594.3	586.1	580.0	577.9	582.0
25°	721.4	721.4	709.1	692.7	676.3	657.8	643.5	633.2	625.0	623.0	620.9
27.5°	786.9	791.0	774.6	758.2	739.8	715.2	700.9	686.5	684.5	682.4	680.4
30°	856.6	864.8	848.4	832.0	807.4	782.8	764.4	758.2	752.1	756.2	756.2
32.5°	942.7	946.8	928.3	916.0	883.3	858.7	842.3	838.2	840.2	838.2	844.3
35°	1043.1	1037.0	1022.6	998.0	969.3	946.8	934.5	942.7	965.2	973.4	969.3
37.5°	1153.8	1131.2	1123.0	1092.3	1065.6	1047.2	1051.3	1071.8	1090.2	1104.6	1100.5
40°	1235.7	1239.8	1217.3	1188.6	1164.0	1159.9	1182.5	1209.1	1243.9	1256.2	1260.3
42.5°	1319.8	1344.4	1317.7	1289.0	1276.7	1284.9	1317.7	1371.0	1448.9	1489.9	1483.7
45°	1416.1	1442.7	1414.0	1391.5	1389.4	1420.2	1491.9	1631.3	1746.0	1828.0	1836.2
47.5°	1516.5	1537.0	1510.3	1496.0	1516.5	1575.9	1698.9	1885.4	2008.3	2104.6	2121.0
50°	1643.6	1635.4	1614.9	1612.8	1657.9	1766.5	1932.5	2121.0	2342.4	2405.9	2426.4
52.5°	1768.6	1737.8	1733.7	1744.0	1823.9	1946.9	2168.2	2539.1	2864.9	3094.5	3119.1
55°	1885.4	1850.5	1858.7	1885.4	1998.1	2184.6	2492.0	2944.9	3229.7	3391.6	3399.8
57.5°	1991.9	1971.4	1989.9	2026.8	2194.8	2434.6	2760.4	3133.4	3348.6	3463.3	3483.8
60°	2100.5	2096.5	2119.0	2186.6	2367.0	2580.1	2852.6	3182.6	3397.8	3485.9	3506.4
62.5°	2203.0	2217.4	2246.1	2311.6	2451.0	2617.0	2881.3	3285.1	3606.8	3746.1	3781.0
65°	2311.6	2323.9	2358.8	2369.0	2494.0	2670.3	3076.0	3477.7	3748.2	3928.5	3953.1
67.5°	2410.0	2426.4	2414.1	2405.9	2514.5	2670.3	3037.1	3389.6	3615.0	3752.3	3778.9
70°	2504.3	2485.8	2436.6	2373.1	2403.8	2510.4	2846.5	3151.8	3379.3	3508.4	3535.1
72.5°	2528.9	2504.3	2373.1	2227.6	2182.5	2262.4	2571.9	2842.4	3028.9	3149.8	3166.2
75°	2465.3	2414.1	2192.8	1991.9	1905.9	1985.8	2244.0	2475.6	2606.7	2737.9	2748.1
77.5°	2211.2	2178.4	1932.5	1688.6	1592.3	1651.7	1866.9	2030.9	2182.5	2309.6	2334.2
80°	1815.7	1787.0	1569.8	1371.0	1241.9	1282.9	1440.7	1571.8	1717.3	1817.7	1848.5
82.5°	1336.2	1332.1	1176.3	989.8	899.6	895.6	1014.4	1143.5	1254.2	1350.5	1371.0
85°	840.2	840.2	733.7	620.9	526.7	528.7	600.4	694.7	834.1	895.6	901.7
87.5°	284.9	270.5	252.1	204.9	163.9	147.6	157.8	180.3	274.6	340.2	352.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°
0°	407.8
2.5°	414.0
5°	420.1
7.5°	426.3
10°	438.6
12.5°	457.0
15°	477.5
17.5°	506.2
20°	541.0
22.5°	580.0
25°	620.9
27.5°	682.4
30°	754.1
32.5°	842.3
35°	971.4
37.5°	1104.6
40°	1270.6
42.5°	1500.1
45°	1815.7
47.5°	2121.0
50°	2403.8
52.5°	3067.8
55°	3408.0
57.5°	3481.8
60°	3500.2
62.5°	3762.5
65°	3949.0
67.5°	3776.9
70°	3528.9
72.5°	3153.9
75°	2764.5
77.5°	2334.2
80°	1823.9
82.5°	1371.0
85°	887.4
87.5°	342.2
90°	0.0

(END OF REPORT)